

SAMPLE TEST PAPER

CLASS : IX

Code
0

Time: 90 Min.

Maximum Marks : 200

INSTRUCTIONS

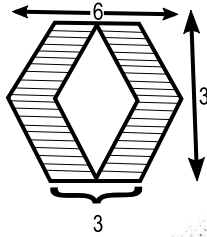
- This sample question paper is for your reference to get practice for Main Scholarship Exam.
- This paper contains questions based on (Physics, Chemistry, Biology, Mathematics & Mental Ability).
- In this question paper :
Q. 01-25 are of Science. **Q.26-45** are of Mathematics **Q.46-50** are of Mental Ability
- Each question has four options one of these is the correct answer.
- 4 marks** will be awarded for each correct answer and there is **no negative marking**. Do not spend too much time on a particular question.
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- The ORS sheet for marking the answers shall be provided separately.
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- A bullet of mass 25 g is fired horizontally with a velocity of 120 m/s from a pistol of 2.5 kg. The recoil velocity of the pistol is
 (A) - 0.6 m/s (B) 0.6 m/s
 (C) - 1.2 m/s (D) 1.2 m/s
- Identify the force which cannot act without any physical contact.
 (A) Frictional force (B) Gravitational force
 (C) Electrostatic force (D) Magnetic force
- Which of the following statement is correct regarding velocity and speed of a moving body?
 (A) Velocity of a moving body is always higher than is speed
 (B) Speed of a moving body is always higher than its velocity
 (C) Speed of a moving body is its velocity in a given direction
 (D) Velocity of a moving body is its speed in a given direction
- Area under a V-T graph represents a physical quantity which has the unit
 (A) m^2 (B) m
 (C) m^3 (D) ms^{-1}
- If the force applied on an object is doubled and mass to half. What will be the ratio of its accelerations?
 (A) 1 : 2 (B) 2 : 1
 (C) 1 : 4 (D) 4 : 1
- A ball is thrown up with an initial velocity of 20 m/s and after some time it returns. What is the maximum height reached? Take $g = 10 \text{ m/s}^2$.
 (A) 80 m (B) 20 m
 (C) 70 m (D) 40 m
- Sound is a kind of
 (A) Work (B) Energy
 (C) Force (D) Pressure
- Liquids exert pressure on the walls of the container:
 (A) yes (B) no
 (C) can't say (D) none of these
- In chromatography, the different constituents of a mixture get adsorbed differently on the same adsorbent material, because they have different rates of movement. This rate of movement of each adsorbed material depends upon →
 (A) The relative solubility of constituents of mixture in a given solvent.
 (B) The relative affinity of constituents of mixture for the adsorbent medium.
 (C) Both (A) & (B)
 (D) Independent of all factors.
- The molecular formula of zinc phosphate is-
 (A) $Zn(PO_4)_3$ (B) Zn_2PO_4
 (C) $Zn_3(PO_4)_2$ (D) $ZnPO_4$

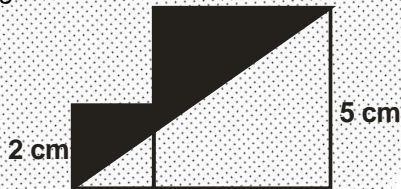
11. Pick out the isoelectronic structures from the following-
- (I) CH_3^+ (II) H_3O^+
 (III) NH_3 (IV) CH_3^-
 (A) I and II (B) III and IV
 (C) I and III (D) II, III, IV
12. The mass percentage of sugar in a solution containing 48 g of sugar and 72 g of water is
 (A) 40 % (B) 30 %
 (C) 11 % (D) 7 %
13. The temperature remains same during melting, while all the ice changes into water due to the :
 (A) latent heat of fusion
 (B) latent heat of vapourisation
 (C) latent heat of evaporation.
 (D) latent heat of sublimation.
14. The mass of 3.011×10^{23} atoms of O is – [Atomic mass of O = 16]
 (A) 0.5 gms (B) 2 gms
 (C) 8 gm (D) 32 gm
15. Which substance is added to LPG to detect the leakage of gas from cylinder?
 (A) Methyl mercaptan
 (B) ethyl mercaptan
 (C) butane
 (D) propane
16. When alpha particles are allowed to strike thin metal foil, most of them go straight through the foil because-
 (A) alpha particles are much heavier than electrons.
 (B) alpha particles are positively charged.
 (C) most part of the atom is empty
 (D) alpha particles move with high velocity.
17. Biochemical investigation reveals that the cell membrane is composed of
 (A) Proteins + lipid only
 (B) carbohydrate + proteins only
 (C) Lipids + proteins + carbohydrates only
 (D) carbohydrate only
18. The network of Endoplasmic Reticulum is present in the –
 (A) Nucleus (B) Nucleolus
 (C) Cytoplasm (D) Chromosomes
19. Solute concentration is higher in the external solution –
 (A) Hypotonic (B) Isotonic
 (C) Hypertonic (D) None of the above
20. Which of the following tissues has dead cells?
 (A) Parenchyma (B) Sclerenchyma
 (C) Collenchyma (D) Epithelial tissue
21. Intestine absorb the digested food materials. What type of epithelial cells are responsible for that?
 (A) Stratified squamous epithelium
 (B) Columnar epithelium
 (C) Spindle fibres
 (D) Cuboidal epithelium
22. Select the incorrect sentence
 (A) Blood has matrix containing proteins, salts and hormones
 (B) Two bones are connected with ligament
 (C) Tendons are non-fibrous tissue and fragile
 (D) Cartilage is a form of connective tissue
23. The yeast multiply by a process called
 (A) Binary fission
 (B) Budding
 (C) Spore formation
 (D) None of the above
24. The following is an antibiotics
 (A) Alcohol (B) Yeast
 (C) Sodium bicarbonate (D) Streptomycin
25. The vaccine for smallpox was discovered by
 (A) Robert Koch
 (B) Alexander Fleming
 (C) Sir Ronald Ross
 (D) Edward Jenner
26. If $x = \frac{y}{y+1}$ & $y = \frac{a-2}{2}$, find the value of $x(y+2) + \frac{x}{y} + \frac{y}{x}$
 (A) a (B) 2a
 (C) $\frac{a}{2}$ (D) a^2
27. $\sqrt{1 + \sqrt{1 - \frac{2176}{2401}}} = 1 + \frac{y}{7}$ then the value of y is _____
 (A) 1 (B) 2
 (C) 3 (D) 4
28. The length and breadth of square are increased by 30% and 20% respectively. The area of rectangle so formed exceeds the area of square by
 (A) 56% (B) 46%
 (C) 66% (D) None of these
29. Solve : $x = \frac{1}{2 - \frac{1}{2 - \frac{1}{2 - x}}}$, $x \neq 2$
 (A) 0 (B) 1
 (C) -1 (D) None of these

30. $A = (2 + 1)(2^2 + 1)(2^4 + 1) \dots (2^{2048} + 1)$. The value of $(A + 1)^{1/2048}$ is
 (A) 4 (B) 2016
 (C) 2^{4032} (D) 2

31. The area of the shaded region in the diagram is



- (A) 9 (B) $3\sqrt{2}$
 (C) 18 (D) $6\sqrt{3} - 3\sqrt{2}$
32. The perimeter of a rectangle is 100 and its diagonal has length x . The area of this rectangle, is
 (A) $625 - x^2$ (B) $625 - \frac{x^2}{2}$
 (C) $1250 - x^2$ (D) $1250 - \frac{x^2}{2}$
33. Two squares have dimensions as indicated in the drawing. What is the area of the shaded region?



- (A) $11\frac{1}{2}$ sq. cm (B) $23\frac{1}{2}$ sq. cm
 (C) 5 sq. cm (D) 17 sq. cm
34. Simplify: $\frac{1}{(\sqrt{5} + \sqrt{6} + \sqrt{11})}$
 (A) $\frac{6\sqrt{6} + 5\sqrt{5} - \sqrt{330}}{60}$ (B) $\frac{5\sqrt{6} + 6\sqrt{5} - \sqrt{330}}{60}$
 (C) $\frac{6\sqrt{6} - 5\sqrt{5} - \sqrt{330}}{60}$ (D) $\frac{5\sqrt{6} - 6\sqrt{5} - \sqrt{330}}{60}$

35. If $p = x + \frac{1}{x}$ then the value of $p - \frac{1}{p}$ will be
 (A) $3x$ (B) $\frac{3}{x}$
 (C) $\frac{x^4 + x^2 + 1}{x^3 + x}$ (D) $\frac{x^4 + 3x^2 + 1}{x^3 + x}$

36. A can do $\frac{3}{8}$ part of a work in 9 hrs, B can do $\frac{1}{4}$ part of the same work in 4 hrs. Both work together and complete the work in:

- (A) $\frac{48}{5}$ hrs (B) $\frac{5}{48}$ hrs
 (C) $\frac{35}{8}$ hrs (D) $\frac{8}{35}$ hrs

37. Let $a, b,$ and c be nonzero real numbers such that $a + \frac{1}{b} = 5, b + \frac{1}{c} = 12$ and $c + \frac{1}{a} = 13$.

Find $abc + \frac{1}{abc}$.
 (A) 750 (B) 680
 (C) 780 (D) None of these

38. The population of a town increases by 12% during first year decreases by 10% during second year. If the present population is 50400, what it was 2 years ago?
 (A) 40000 (B) 35000
 (C) 50000 (D) None of these

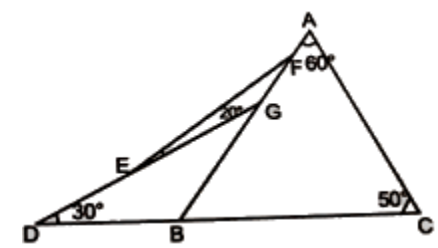
39. The square-root of $\frac{(0.75)^3}{1 - (0.75)} + (0.75 + (0.75)^2 + 1)$ is
 (A) 1 (B) 2
 (C) 3 (D) 4

40. There are three cell phones A, B, C. A is 50% costlier than C and B is 25% costlier than C. A is $a\%$ costlier than B. Then $a =$
 (A) 10 (B) 15
 (C) 20 (D) 25

41. Twenty four children are seated equally spaced around a circle and numbered from 1 to 24. What is the number of the child who sits diametrically opposite to the child number 10.
 (A) 20 (B) 21
 (C) 22 (D) 23

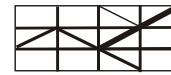
42. From a point within an equilateral triangle perpendiculars are drawn to the three sides and are 5, 7 and 9 cms in length. The perimeter of the triangle is cm.
 (A) $42\sqrt{3}$ (B) $41\sqrt{3}$
 (C) $43\sqrt{3}$ (D) $44\sqrt{3}$

43. In the adjoining figure $A = 60^\circ, C = 50^\circ, \angle BDG = 30^\circ, \angle GEF = 20^\circ$. Then



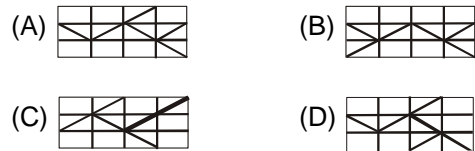
- (A) $EG = 2FG$ (B) $EG > FG$
 (C) $EG = FG$ (D) $EG < FG$

44. 700 in roman numerals can be written as :
 (A) CDC (B) DCC
 (C) CCD (D) DDC



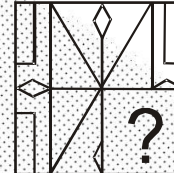
(X)

45. The Quartered part of a number obtained when the first prime number is cubed and then added to the square of the fifth prime number and finally multiplied the result by the 5th composite number, will be ____
 (A) 322.5 (B) 62.5
 (C) 125 (D) 245

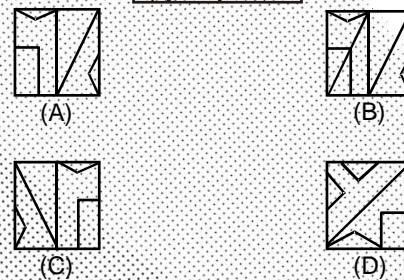


46. Arrange the following words in a logical and meaningful order.
 1. Study 2. Job 3. Examination
 4. Earn 5. Apply
 (A) 1, 2, 3, 4, 5 (B) 1, 3, 2, 5, 4
 (C) 1, 3, 5, 4, 2 (D) 1, 3, 5, 2, 4

49. In the given question, a part of the figure is missing. Find out from the given options (A, B, C, D) the right figure to fit in the missing figure.

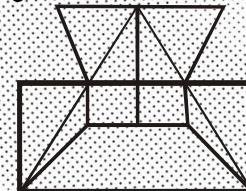


47. In the given question, you are given a combination of letters followed by four alternatives (A), (B), (C) and (D). Choose the alternative which most closely resembles the mirror-image of the given combination.
 eagle45
 (A) 45eagle
 (B) 54elgae
 (C) əɹɛɹɔɹɔɹɔ
 (D) ɹɔɹɔɹɔɹɔ



48. In a given question, a figure marked (X) is followed by four figures (A), (B), (C) and (D) which show that possible water images of figure (X). Choose one out of these four figures which shows the correct water image of the figure (X).

50. How many straight lines are there in the following figure?



- (A) 16 (B) 19
 (C) 17 (D) 18

ANSWER KEY (CLASS IX)

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	D	B	D	B	C	B	B	A	C	C	D	A	A	C	B
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	C	C	C	C	B	B	C	B	D	D	A	A	A	B	A
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	A	D	A	B	C	A	A	C	B	C	C	A	C	B	A
Ques.	46	47	48	49	50										
Ans.	D	D	D	C	C										

SAMPLE TEST PAPER

CLASS : X

Code
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Maximum Marks : 200

INSTRUCTIONS

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1. Which of the following types of images can be formed by a convex mirror?

- (A) An inverted magnified image
(B) An erect magnified image
(C) An erect diminished image
(D) An inverted diminished image

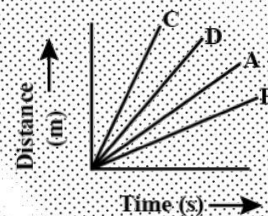
2. The muscles of the iris control the:
- (A) Focal length of the eye-lens
(B) Amount of light entering the eye
(C) Shape of the crystalline lens
(D) Optic nerve

3. A pencil of 5 cm long is placed at a distance of 12 cm from a convex lens. Assuming it to be perpendicular to the principal axis, calculate the size of the image formed if the focal length of the lens is 8 cm.

- (A) 20 cm (B) 15 cm
(C) 10 cm (D) 12 cm

4. Which ray is least deviated by a prism?
- (A) Violet ray (B) Green ray
(C) Red ray (D) Yellow ray

5. Four cars A, B, C and D are moving on a leveled road. Their distance versus time graphs are shown in figure. Choose the correct statement.



- (A) Car A is faster than car D
(B) Car B is the slowest
(C) Car D is faster than car C
(D) Car C is the slowest

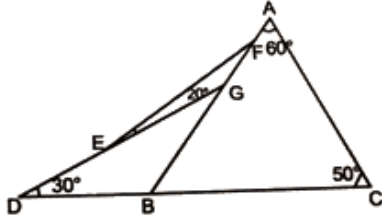
6. A force produces an acceleration of 5.0 cm s^{-2} when it acts on a body of mass 20 g. Find the force acting on the body.
- (A) $1 \times 10^{-3} \text{ N}$ (B) $2 \times 10^{-3} \text{ N}$
(C) $4 \times 10^{-3} \text{ N}$ (D) $5 \times 10^{-3} \text{ N}$

7. A longitudinal wave travels from east to west in air in which direction do the particles of air move?
- (A) East to west
(B) East to west and north to south
(C) North to south
(D) South to north

8. A ball weighing $1/2 \text{ kg}$ has a kinetic energy of 1 joule when its speed is:
- (A) 1 m/s (B) 2 m/s
(C) 3 m/s (D) 4 m/s

9. A dirty green precipitate of ferrous hydroxide is formed when :
- Iron sulphide reacts with dil H_2SO_4
 - Ferrous sulphate crystals heated strongly
 - Solution of ferrous sulphate is mixed with sodium hydroxide solution
 - None of these
10. $\text{H}_2\text{S}(\text{g}) + \text{Cl}_2(\text{g}) \rightarrow 2\text{HCl}(\text{g}) + \text{S}(\text{s})$
The reaction is interpreted as:
- H_2S is getting oxidised and Cl_2 is getting reduced
 - H_2S is getting reduced and Cl_2 is getting oxidized
 - Only H_2S is oxidized
 - Both H_2S and Cl_2 are reduced
11. The IUPAC name of the following compound is:
 $\text{CH} = \text{CH} - \text{CH}(\text{CH}_3)_2$
- 1, 1-Dimethyl-2-propene
 - 3-Methyl-1-butene
 - 2-Methyl propane
 - 1- Propyl ethyne
12. Removal of impurities from ore is known as-
- Crushing and grinding
 - concentration of ore
 - minerals
 - gangue
13. A hydrocarbon having one double bond has 100 carbon atoms in its molecule. The number of hydrogen atoms in its molecule will be:
- 196
 - 198
 - 200
 - 202
14. While preparing CO_2 in laboratory on which of the following substances hydrochloric acid is poured?
- Pieces of Zinc
 - The particles of copper Sulphate
 - Pieces of marble
 - Ammonium Chloride
15. What will be the colour of phenolphthalein indicator in Na_2CO_3 solution?
- Red
 - Green
 - Colourless
 - Pink
16. Number of valence electrons in magnesium ion are –
- 12
 - 10
 - 2
 - 8
17. Osmosis is the movement of :
- solute particles from higher concentration to lower concentration
 - solvent particles from higher water potential to lower water potential through a semi permeable Membrane
 - solute particles from higher concentration to lower concentration through a semipermeable membrane
 - solvent particles from lower water potential to higher water potential.
18. The carbohydrates synthesized in the leaves are transported through sieve tubes most commonly in the form of
- glucose
 - starch
 - sucrose
 - cellulose
19. Which of the following is the correct path taken by urine in our body
- Kidney \rightarrow ureter \rightarrow urethra \rightarrow bladder
 - Kidney \rightarrow bladder \rightarrow urethra \rightarrow ureter
 - Kidney \rightarrow ureter \rightarrow bladder \rightarrow urethra
 - bladder \rightarrow Kidney \rightarrow ureter \rightarrow urethra
20. Main function of kidney is
- passive absorption
 - ultrafiltration
 - selective reabsorption
 - Both B and C
21. Major function of contractive vacuole is
- excretion
 - circulation
 - osmoregulation
 - all the above
22. The movement of plant organs in response to the force of gravity is called
- hydrotropism
 - geotropism
 - heliotropism
 - phototropism
23. The pineal body is considered as
- an endocrine gland
 - an organ concerned with voluntary actions
 - an organ concerned with vision
 - a vestige of third eye and endocrine gland
24. The study of nervous system and its disorders is called
- neurogenesis
 - hematology
 - neuroglia
 - neurology
25. Testosterone is secreted by
- Leydig cells
 - Sertoli cells
 - Histocyte
 - Primary spermatocyte
26. If equation $x^2 - (2 + m)x + (m^2 - 4m + 4) = 0$ has coincident roots, what is the value of 'm'?
- $m = 0$
 - $m = 8$
 - $m = 2$
 - $m = \frac{2}{3}$
27. If the numerator of a fraction is increased by 200% and the denominator of the fraction is increased by 150%, the resultant fraction is $\frac{9}{10}$.
What is the original fraction.
- $\frac{5}{12}$
 - $\frac{4}{7}$
 - $\frac{3}{4}$
 - None of these

28. In the adjoining figure $A = 60^\circ$, $C = 50^\circ$.
 $\angle BDG = 30^\circ$, $\angle GEF = 20^\circ$. Then



- (A) $EG = 2FG$ (B) $EG > FG$
 (C) $EG = FG$ (D) $EG < FG$

29. If $x = \frac{1}{\sqrt{3}}$ is root of the equation

$Px^2 + (\sqrt{3} - \sqrt{2})x - 1 = 0$, then the value of $P^2 + 1$ is

- (A) $\sqrt{6}$ (B) 6
 (C) 7 (D) 8

30. A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they meet again at the starting point?

- (A) 26 min. 18 sec. (B) 42 min. 36 sec.
 (C) 45 min. (D) 46 min. 12 sec.

31. Solve for x : $3^{x+2} + 3^{-x} = 10$.

- (A) -2, 0 (B) -1, 0
 (C) -2, -1 (D) None of these

32. If $4x^4 - 3x^3 - 3x^2 + x - 7$ is divided by $1 - 2x$ then remainder will be :

- (A) $\frac{57}{8}$ (B) $-\frac{59}{8}$
 (C) $\frac{55}{8}$ (D) $-\frac{55}{8}$

33. In a triangle ABC, medians AD and BE are drawn. If $AD = 4$, $\angle DAB = 30^\circ$ and $\angle ABE = 60^\circ$, then the area of the $\triangle ABC$ is:

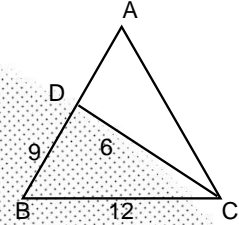
- (A) $\frac{8}{3}$ (B) $\frac{16}{3}$
 (C) $\frac{32}{3\sqrt{3}}$ (D) $\frac{64}{3}$

34. The number 2.5081081081081..... can be written as $\frac{m}{n}$ where m and n are natural numbers with no common factors. Find m + n.

- (A) 649 (B) 928
 (C) 749 (D) None of these

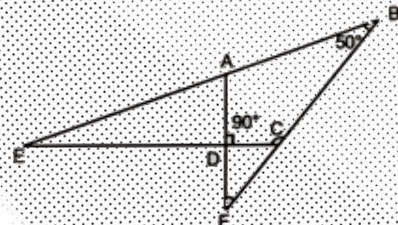
35. Find x so that $2^{2^{3^{2^2}}} = 4^{4^x}$.
 (A) 2^{81} (B) 2^{78}
 (C) 2^8 (D) None of these

36. Consider the triangle ABC shown in the following figure where $BC = 12$ cm, $DB = 9$ cm, $CD = 6$ cm and $\angle BCD = \angle BAC$. What is the ratio of the perimeter of the triangle ADC to that of the triangle BDC?



- (A) $\frac{7}{9}$ (B) $\frac{8}{9}$
 (C) $\frac{6}{9}$ (D) $\frac{5}{9}$

37. In the adjacent figure BA and BC are produced to meet CD and AD produced in E and F. The $\angle AED + \angle CFD$ is



- (A) 80° (B) 50°
 (C) 40° (D) 160°

38. A square is inscribed in an equilateral triangle, with one edge of the square on an edge of the triangle, if the side of the equilateral triangle is $2 + \sqrt{3}$ unit then the area of square is equal to

- (A) 3 sq. unit (B) $\frac{2\sqrt{3} + 3}{2}$ sq. unit
 (C) $\frac{3\sqrt{3} + 3}{2}$ sq. unit (D) $2\sqrt{3}$ sq. unit

39. If $p = \frac{1 - \sin x}{1 + \sin x}$, $q = \frac{1 - \sin x}{\cos x}$, $r = \frac{\cos x}{1 + \sin x}$, then Which one of the following statement is correct ?

- (A) $p = q \neq r$ (B) $q = r \neq p$
 (C) $r = p \neq q$ (D) $p = q = r$

40. The expression $(1 - \tan A + \sec A)(1 - \cot A + \operatorname{cosec} A)$ has value :

- (A) -1 (B) 0
 (C) +1 (D) +2

41. Which of the following pairs of equation is/are Inconsistent?

- (A) $3x - y = 8, x - \frac{y}{3} = 3$
 (B) $4x + 3y = 24, -2x + 3y = 6$
 (C) $5x - y = 10, 10x - 2y = 20$
 (D) $2x + 7y = 12, 5x + 21y = 15$

42. Let P be a function defined by $P(t) = a^t + b^t$, where a and b are real numbers. If $P(1) = 7$ and $P(3) = 28$, compute $P(2)$.

- (A) 34 (B) 19
 (C) 43 (D) None of these

43. If $x > 0, x^2 = 2^{64}$ and $x^x = 2^y$ then what is the value of y?

- (A) 2 (B) $2^{(11)}$
 (C) $2^{(32)}$ (D) $2^{(37)}$

44. If the digit in the units place of a two digit number is halved & the digit in the tens place is doubled, the number thus obtained is equal to the number obtained by interchanging the digits. Which of the following is definitely true?

- (A) Digits in the units place & the tens place are equal.
 (B) Digits in the units place is half of the digit in the tens place
 (C) Digit in the units place is twice the digit in the tens place
 (D) None of these

45. If α and β are the zeroes of the polynomial $5x^2 - 7x + 2$, then sum of their reciprocals is :

- (A) $\frac{7}{2}$ (B) $\frac{7}{5}$
 (C) $\frac{2}{5}$ (D) $\frac{14}{25}$

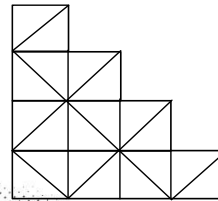
46. A rat runs 20 m towards east and turns to right and runs 10 m and turns to right, runs 9 m and again turns to left, runs 5 m and then turns to left runs 12 m and finally turns to left and runs 6 m. Now which direction is the rat facing?

- (A) East (B) North
 (C) West (D) South

47. 'Needle' is related to 'Clock' as 'Wheel' is related to

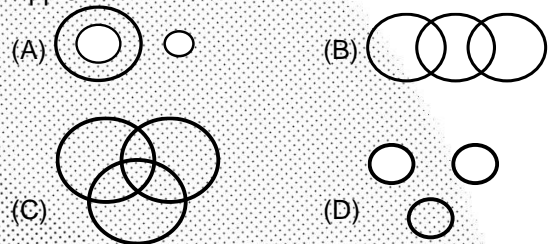
- (A) Driver (B) Vehicle
 (C) Circular (D) Move

48. What is the number of squares in Figure?



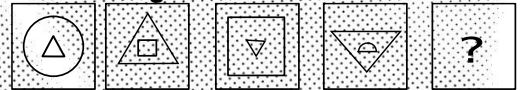
- (A) 15 (B) 12
 (C) 13 (D) 14

49. Which one of the following figures represents the relationship among Vegetables, Spinach, Apple.



50. Directions: A given question consist of five figures. These figures form a series. Find out the one from the answer figures that will continue the series.

Problem Figures :



Answer Figure:



- (A) (B) (C) (D)

ANSWER KEY (CLASS X)

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	C	B	B	C	B	A	A	B	C	A	B	B	C	C	D
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	D	B	C	C	D	C	B	D	D	A	D	C	C	C	D
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	A	B	C	A	B	A	C	A	D	D	A	B	D	C	A
Ques.	46	47	48	49	50										
Ans.	B	B	D	A	A										